



COMMONWEALTH of VIRGINIA

Department of Health DIVISION OF SHELLFISH SANITATION

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STUTTS, QUEENS, AND WHITES CREEKS Growing Area # 037 Mathews County Shoreline Sanitary Survey

Date: 6 March 2002

Survey Period: June 8 – November 30, 2001

Total Number of Properties Surveyed: 1442

Surveyed By: J.M. Smither, R.M. Thomas, D.B. Geeson, and R.S. Morris

SECTION A: GENERAL

This survey area extends from Reference Point 37 at Iron Point to Reference point 38 at the end of Rt. 645 including the Chesapeake Bay shoreline between these two points, Godfrey Bay (Chapel Creek), Hills Bay, Queens Creek, (Kenney Creek, Miller Cove), Winder Creek, The Narrows, Middle Grounds, Milford Haven, Lanes Creek, Stutts Creek (Callis Creek, Morris Creek, Hudgins Creek), Billups Creek, Whites Creek (Stoakes Creek, Back Creek), south side of The Hole in the Wall and all of their tributaries.

The topography in this area varies from 5' or less along the shoreline to a maximum of 35' at the northwest edge of the survey boundary.

The economy of the area is dependent primarily on agriculture, recreation, and commerce. Population is moderate around the shoreline and along Routes 198 and 14, but sparse inland.

During this survey period, meteorological data indicated that 27.89" of precipitation was recorded. A monthly breakdown follows:

June 8-30	6.11"	August	8.81"	October	1.67"
July	8.62"	September	2.53"	November	0.15"

There was one drawbridge tender station in the survey which is served by a Destroilet incinerator that was in good working condition. There was only one sewage treatment facility and it serves the U.S. Coast Guard Station. All properties surveyed are served by on-site sewage disposal systems. There is a small portion of the survey near Mathews Courthouse that is sewered. The sewage treatment plant serving these dwellings is located in the East River survey area.

Report copies are provided to the local health department for corrective action of deficiencies listed on the summary page in Section B.2 and the Department of Environmental Quality, Water Regional Office for possible action at the properties listed on the summary page in Sections C.1 and C.2. The Division of Soil and Water Conservation is provided information on possible sources of animal pollution found in Section E.

Copies for Bacteriological, Hydrographic and Shellfish Closure data are available at the area office for review. Copies of the current condemnation notices and maps are available via the internet at <http://www.vdh.virginia.gov/environmentalhealth/shellfish/>.

This report lists only those properties that have a sanitary deficiency or other environmental significance. "DIRECT" indicates that the significant activity or deficiency has a direct impact on shellfish waters. Individual field forms with full information on properties listed in this report are on file in the Richmond Office of the Division of Shellfish Sanitation and available for reference until superseded by a subsequent resurvey of the area.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

17. **DIRECT** – Occupant: Milford Haven U.S. Coast Guard Station, HC 02, Box 2200, Hudgins 23076. Owner: U.S. Government, Washington D.C. Business- U.S. Coast Guard patrol boat base. 30 employees. VPDES Permit #VA0022373. Treatment facility consists of .003 MGD extended aeration package plant, two intermittent flooding sand filters and 12,000 gallon holding tank. Chlorine contact tanks were replaced by an ultraviolet (UV) disinfection system. Final effluent is discharged to Milford Haven to an outfall at a 4' depth with a diffuser. The treatment plant has a generator to provide auxiliary power for all pumping operations and treatment equipment. Also provided is a connection for ship-to-shore pumping of sewage from U.S. Coast Guard vessels. A copy of the most recent DEQ inspection report for this facility is attached to the back of this report.

ON-SITE SEWAGE DEFICIENCIES

4. CONTRIBUTES POLLUTION – Location: General Delivery, Halliford 23068. Dwelling- yellow asbestos siding 2 story with white trim. 5 persons. Effluent erupting from drainfield onto ground surface. Sanitary Notice issued 8-27-01 to field # A338.
6. CONTRIBUTES POLLUTION – Location: PO Box 1, Halliford 23068. Dwelling- white and brown house trailer. 5 persons. Effluent erupting from drainfield onto ground surface. Sanitary Notice issued 8-30-01 to field # A346.
10. NO FACILITIES – Location: PO Box 473, Cobbs Creek 23035. Dwelling- gray asphalt siding and frame 1 story. No contact. Sanitary Notice issued 6-27-01 to field # A106.
14. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: PO Box 22, Mathews 23109. Dwelling- white frame 2 story. 2 persons. Unapproved lid on grease trap. Sanitary Notice issued 7-27-01 to field # B267.
15. CONTRIBUTES POLLUTION – Location: PO Box 184, Hudgins 23076. Dwelling- frame with yellow asbestos shingle 2 story. 6 persons. Effluent erupting from septic tank onto ground surface. Sanitary Notice issued 6-29-01 to field # B76.
16. NO FACILITIES – Location: United States Post Office, PO Box 9998, Hudgins 23076. Owner: Jackie Rowe, PO Box 4, Gwynn 23066. Dwelling- white cement block 1 story. 1 person. Sanitary Notice issued 6-22-01 to field # B73.

20. CONTRIBUTES POLLUTION – Location: PO Box 86, Hudgins 23076. Dwelling- white vinyl siding 1½ story with black shutters. No contact. Effluent erupting from drainfield onto ground surface. Sanitary Notice issued 6-22-01 to field # C46.
21. CONTRIBUTES POLLUTION – Location: PO Box 71, Hudgins 23076. Dwelling- white frame 1 story with green shutters. 2 persons. Pit privy full to riser and seeping onto ground surface. Sanitary Notice issued 6-22-01 to field # C53.
22. NO FACILITIES – Location: PO Box 262, Hudgins 23076. Dwelling- white cement block 1 story with green trim and shutters. 1 person. Pit privy floor collapsed and not usable. Sanitary Notice issued 6-29-01 to field # C76.
25. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: PO Box 102, Hudgins 23076. Dwelling- yellow aluminum siding 1 story with white trim and shutters. No contact. Grease trap effluent erupting onto ground surface. Sanitary Notice issued 7-27-01 to field # C126.
26. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: General Delivery, Redart 23076. Dwelling- white vinyl siding and brick 1½ story. No contact. Unapproved plywood lid to grease trap. Sanitary Notice issued 7-27-01 to field # C142.
28. CONTRIBUTES POLLUTION (Kitchen and Laundry Wastes), DIRECT – Location: PO Box 371, Mathews 23109. Dwelling- brick 1 story with white trim. 3 persons. Laundry wastes discharge through a 4" terra cotta pipe onto ground surface 25' from Stutts Creek at 6' elevation. Sanitary Notice issued 8-10-01 to field # C210.
31. CONTRIBUTES POLLUTION (Kitchen and Laundry Wastes) – Location: 302 Wells Road, Newport News 23602. Dwelling- white wood siding 1½ story with red shutters and a green shingle roof. No contact. Grease trap wastes discharge through an underground pipe into a hole in back yard 50' from drainage ditch at 6' elevation. Sanitary Notice issued 9-7-01 to field # C232.
32. CONTRIBUTES POLLUTION – Occupant: Zooms, Route 223, Hudgins 23076. Owner: Scott Shipley, V.P. of Operations, 2451 West Pembroke Avenue, Hampton 23661. Dwelling- yellow brick 1 story convenience store/gas station. 2 persons. Broken lids to septic tank and distribution box. Sanitary Notice issued 7-9-01 to field # C249.
34. CONTRIBUTES POLLUTION – Location: PO Box 234, Cobbs Creek 23035. Dwelling- tan vinyl siding 1 story with white trim. No contact. Effluent erupting from broken/improperly fitting septic tank lid onto ground surface. Sanitary Notice issued 10-5-01 to field # C318.
38. CONTRIBUTES POLLUTION, (Kitchen or Laundry Wastes), **DIRECT** – Location: PO Box 35, Moon 23119. Dwelling- cream wood siding 1 story with brown shutters. 2 persons. Laundry wastes discharges through a 2" pipe to ditch with direct access to Hudgins Creek. Sanitary Notice issued 8-24-01 to field # D249.
42. NO FACILITIES, **DIRECT** – Beauregard Turner Pier, end of State Route 644, Moon 23119. Harbor and ramp for subdivision residents. 20 slips/moorings. No contact. Sanitary Notice issued 3-01-02 to field # D86.

43. CONTRIBUTES POLLUTION, (Kitchen or Laundry Wastes) – Location: PO Box 28, Diggs 23045. Dwelling- faded asbestos 2½ story with white trim. 5 persons. Laundry wastes discharges through broken 3" pipe onto ground surface. Sanitary Notice issued 6-29-01 to field # D65.
47. CONTRIBUTES POLLUTION, (Kitchen or Laundry Wastes) – Location: PO Box 4145, Diggs 23045. Dwelling- tan vinyl 1½ story with white trim and silver metal roof. 2 persons. Laundry waste discharges through a 2" pipe onto ground surface. Sanitary Notice issued 6-8-01 to field # D6.

POTENTIAL POLLUTION

-None-

SECTION C: NON-SEWAGE POLLUTION SOURCES

INDUSTRIAL WASTE SITES

8. Occupant: Tucker's Marine. Owner: Richard Tucker, PO Box 382, Hudgins 23076. Dwelling- blue steel fabricated building 1 story. 3 persons. Fourteen 55-gallon drums for waste oil collection. Pumped by Safety Kleen, 4545 Bainbridge Boulevard, Chesapeake, 23320.
12. Occupant: Tom Hearn Auto Service. Owner: Tom Hearn, PO Box 156, Hudgins 23076. Dwelling - frame with gray T-111 siding 1 story. 2 persons. 2 X 300 gallon storage tanks for waste oil collection.
17. Occupant: Milford Haven U.S. Coast Guard Station, HC 02, Box 2200, Hudgins 23076. Owner: U.S. Government, Washington D.C. Business - U.S. Coast Guard patrol boat base. 30 employees. Observed on-site was one 5000-gallon diesel fuel tank 20' from Milford Haven without a berm.
18. Gwynn's Island Boatel (Robert R. Payne), PO Box 209, Hudgins 23076. Business - commercial dry storage marina. 4 employees. Observed on-site was one 2000-gallon unleaded fuel tank inside a cement block berm.
19. ***DIRECT*** – Occupant: Sea Farms, Inc., Route 669, Hudgins 23076. Owner: Ronald T. Sopko, PO Box 309, Hudgins. Business- Commercial shellfish processing plant (VA-889SP). 12-20 employees. Processing wastes and floor drains discharge wastes to an approved holding tank and also overboard to Milford Haven. Has permit # VAG524046 from DEQ/PRO. Permit expires 7-24-06.

SOLID WASTE DUMPSITES

11. Location: Right side of State Route 626, Blakes 23020. Owner: Mathews County, c/o Mr. Steve Whiteway, County Administrator, Mathews 23109. Public– Solid waste Sanitary Landfill. No contact. Landfill was permanently closed in October 1993. Monitoring wells have been installed since last survey to test ground water.
12. Occupant: Tom Hearn Auto Service. Owner: Tom Hearn, PO Box 156, Hudgins 23076. Dwelling- frame with gray T-111 siding 1 story. 2 persons. 25-30 junked autos over 2 acres.

30. John V. Slaughter, HC 02, Box 2657, Hudgins 23076. No contact. Observed on-site were junked vehicles, engine parts, tires, and various other debris scattered throughout approximately 1 acre.

SECTION D: BOATING ACTIVITY

MARINAS

13. Queens Creek Marina. Owner: Mike and Anita Uliasz, PO Box 2352, Mechanicsville 23116. Commercial Marina. 36 slips/2 moorings available. Present at time of survey were 11 pleasure boats under 26' and 19 pleasure boats over 26'. In dry storage there was 1 pleasure boat over 26'. Boating services provided are water and electricity. Containers are provided for solid waste collection. Sanitary facilities provided are 2 commodes, 2 lavatories, and 2 showers for men; and 2 commodes, 2 lavatories, and 2 showers for women. Sewage disposal is by septic tank with drainfield, which appeared to be working satisfactorily at time of inspection. Boat holding tank pump-out facilities and portable toilet dump station facilities are provided at this location.
18. Gwynn's Island Boatel (Robert R. Payne), PO Box 209, Hudgins 23076. Commercial dry storage marina. 4 employees. 6 slips/moorings and 200 dry storage spaces available. Present at time of survey were 142 boats under 26' in wet slips and 14 boats over 26' in dry storage. Boating services provided are fuel, electricity, water, boat sales, repair, and a forklift for putting boats in and out of the water. Containers are provided for solid waste collection. Sanitary facilities provided are 1 commode, 1 lavatory, and 1 shower for men; and 1 commode, 1 lavatory, and 1 shower for women. Sewage disposal is to a septic tank with drainfield, which appeared to be in satisfactory condition at time of inspection. Boat holding tank pump-out facilities and portable toilet dump station facilities are provided at this location.
29. Mathews Yacht Club, PO Box 671, Mathews 23109. Private marina. No contact. 50 slips/moorings available. Present at time of survey were 6 boats under 26' and 15 boats over 26'. Boating services provided are fuel, water, electricity, and an in-out ramp. Containers are available for solid waste collection. Sanitary facilities provided are 2 commodes, 2 urinals, 2 lavatories, and 2 showers for men; and 4 commodes, 1 lavatory, and 1 shower for women. Sewage disposal is to a septic tank with drainfield, which appeared to be in satisfactory condition at time of inspection. Boat holding tank pump-out facilities are provided. Portable toilet dump station facilities are not available at this location.
41. Ruth W. Downs, HC 69, Box 3780, Moon 23119. Private boat harbor. 13 slips/moorings. Present at time of survey were 14 pleasure boats under 26'. Boating services provided are water and electricity. There are no solid waste containers provided. Sanitary facilities provided are two commodes (1 male, 1 female). Sewage disposal is to septic tank with drainfield, which appeared to be in satisfactory condition at time of inspection. There are no boat holding tank pump-out facilities or portable toilet dump station facilities provided at this location.

42. Beauregard Turner Pier, end of State Route 644, Moon 23119. Harbor and ramp for subdivision residents. 20 slips/moorings. No contact. Present at time of survey were 18 pleasure boats under 26'. Boating services provided include fuel, water, and electricity. There are no sanitary facilities, no boat holding tank pump-out facilities, no solid waste containers and no portable toilet dump station facilities available at this location.

OTHER PLACES WHERE BOATS ARE MOORED

5. Mathews Public Boat Dock, end of State Route 626, Halliford 23068. Owner: Mathews County, Mathews 23109. Public Landing. No contact. 14 slips/moorings available. Present at time of survey were 2 work boats and 2 pleasure under 26' and 2 pleasure boats over 26'. No boating services are provided. There are no containers available for solid waste collection, no sanitary facilities, no boat holding tank pump-out facilities and no portable toilet dump station facilities at this location.
7. Sail Cove Community pier and ramp, off of State Route 626, Halliford 23068. Owner: J. Senyk, Halliford 23068. Community ramp and pier. No contact. 4 slips/moorings available. There were no boats present at time of survey. The only boating service provided is an in-out ramp. Containers are provided for solid waste collection. There are no sanitary facilities, boat holding tank pump-out facilities or portable toilet dump station facilities at this location.
17. Owner: U.S. Government, Washington D.C. Occupant: Milford Haven U.S. Coast Guard Station, HC 02, Box 2200, Hudgins 23076. Patrol boat base. 30 employees. 5 slips/moorings; 6 dry storage spaces. Present at the time of survey were 6 boats under 26' in dry storage and 3 boats over 26' in wet slips. Boating services provided are fuel, water, electricity, repair, an in-out ramp, marine and grocery supplies, and 3 laundry washers connected to an on-site sewage treatment plant. Sanitary facilities provided are 9 commodes, 9 lavatories, and 7 showers for men; and 3 commodes, 3 lavatories, and 3 showers for women, all in good condition. Sewage disposal is by on-site sewage treatment plant. Boat holding tank pump-out facilities are not provided, but there is a sewage receiving station at this location.
19. Sea Farms, Inc., Route 669, Hudgins 23076. Owner: Ronald T. Sopko, PO Box 309, Hudgins. Private boat docking facility. 12-20 employees. 6 slips/moorings available. No boats were present at the time of survey. No boating services are provided. Containers are provided for solid waste collection. Sanitary facilities provided are 2 unisex vault privies, which appeared to be in satisfactory condition at time of inspection. Privies are used as a portable toilet dump station facility. A sanitary facility is under construction which will provide 1 commode, 1 lavatory, and 1 shower for men. Sewage disposal will be to a septic tank with "puraflo" peat mound. There are no boat holding tank pump-out facilities available at this location.
23. Edwin R. and Dorothy Haufler, 7636 Cherokee Road, Richmond 23225. No contact. 9 slips/moorings available. Present at time of survey were 3 boats under 26' and 1 boat over 26' in wet slips; and in dry storage there were 2 boats under 26'. Boating services provided are electricity and water. Containers are not provided for solid waste collection. Sanitary facilities are available in each of 2 house trailers. There are no portable toilet dump station facilities or boat holding tank pump-out facilities available at this location.

24. Ann R. Condrey, PO Box 115, Hudgins 23076. 1 person. 10 slips/moorings and 3 dry storage spaces available. Present at time of survey were 2 boats under 26' and 4 boats over 26' in wet slips; and in dry storage there were 3 boats under 26'. Boating services provided are water, electricity, and an in-out ramp. Containers are available for solid waste collection. There are no sanitary facilities, boat holding tank pump-out facilities or portable toilet dump station facilities provided at this location. Owner's son has house across road with sanitary facilities available for use at above location.
37. Fleetwood Properties, Moon 23119. No contact. 22 slips/1 mooring. Present at time of survey were 2 pleasure boats over 26', and 7 pleasure boats under 26'. Boating services provided are water and electricity. Sanitary facilities provided are 1 commode and 1 lavatory for men. Boat holding tank pump-out facilities are available to boaters at this location, but were locked at the time of inspection. There are no containers available for solid waste collection.
44. Marine – private pier and ramp, end of dirt lane off of State Route 682, Mathews 23109. Owner: Mary Owens Clements, PO Box 633, Gloucester 23061. No contact. 20 slips/3 moorings. Present at time of survey were 6 work boats under 26'. There are no boating services, no sanitary facilities, no boat holding tank pump-out facilities and no portable toilet dump station facilities available at this location.

UNDER SURVEILLANCE

2. Misty Cove Subdivision, off of State Route 626, Halliford 23068. Owner: Misty Cove Partners, 608 Williams Street, Fredericksburg 22401. Private Community pier for subdivision. No Contact. 5 slips/moorings available. Present at time of survey was 1 pleasure boat under 26'. No boating services are provided. There are no containers available for solid wastes collection, no sanitary facilities, no boat holding tank pump-out facilities and no portable toilet dump station facilities at this location.
3. Nelson Land Trust, off of State Route 626, Halliford 23068. Owner: Robert B. Nelson, 1618 Keiths Valley Road, Charlottesville 22901. Private pier. No contact. 7 slips/moorings available. Present at time of survey were 2 pleasure boats under 26' and 1 pleasure boat over 26'. Boating services provided are electricity and water. There are no containers available for solid waste collection, no sanitary facilities, no boat holding tank pump-out facilities and no portable toilet dump station facilities at this location.
45. Mathews County Public Boat Ramp and Pier, end of State Route 682, Mathews 23109. No contact. There were no boats present at time of survey. The only boating service provided is an in-out ramp. There are no containers available for solid waste collection, no sanitary facilities, no boat holding tank pump-out facilities and no portable toilet dump station facilities at this location.

SECTION E: CONTRIBUTES ANIMAL POLLUTION

1. Milford Haven Kennels, Mathews 23109. Dog boarding and training facility consisting of 28-30 runs and houses. No Contact. Present at time of survey were 25 dogs. Manure disposal is unknown.
9. Location: PO Box 753, Cobbs Creek 23035. Dwelling-frame with white vinyl 1 story. 3 persons. 18 ducks, 25 chickens, 2 turkeys, 2 geese, 2 peacocks, 2 guineas, and 1 pig in fenced area 20' from ditch at 15' elevation. Manure is left on ground.

27. Location: HCR 75 Box 2874, Redart 23076. Dwelling- gray vinyl siding 1½ story with black shutters and white trim. 2 persons. Present at time of survey were 10 goats, 3 emu and approximately 15 domestic fowl in enclosed pens. Manure is left on the ground.
33. Location: HCR 75, PO Box 1165, Mathews 23109. Dwelling- gray house trailer. 3 persons. 11 goats in fenced area at 10' elevation. Manure is left on ground.
35. Location: PO Box 71, Mathews 23109. Dwelling- white frame 2 story. 2 persons. 15 cows with direct access to drainage ditch. Manure is left on ground.
36. ***DIRECT*** – Location: HCR 75 Box 30, Mathews 23109. Dwelling- red brick 2½ story with white trim. No contact. Present at time of survey were 25 domestic fowl. There were 20 fowl in enclosed pens 50' from Morris Creek at 6' elevation and 5 fowl wandering the property. Manure is left on the ground.
39. ***DIRECT*** – Location: end of State Route 690, PO Box 45, Mathews 23109. Dwelling- tan vinyl trailer with dark brown trim. 2 persons. Present at time of survey were 6 horses in a fenced pasture with direct access to Billups Creek. Manure is left on ground.
40. Location: S.R. Box 21A, Moon 23119. Dwelling- yellow frame 2 story with red shutters. 2 persons. Present at time of survey were 35 chickens and 5 geese. Manure is left on ground.
46. Location: PO Box 944, Mathews 23109. Dwelling- white vinyl 2 story with green shutters. No contact. Present at time of survey were 5 cows. Manure is left on ground.

SUMMARY

Area # 037
Stutts, Queens, and Whites Creeks
6 March 2002

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT WORKS

1 – DIRECT – # 17
0 – INDIRECT – NONE
1 – B.1. TOTAL

2. ON-SITE SEWAGE DEFICIENCIES – Correction of deficiencies in this section is the responsibility of the local health department.

0 – CONTRIBUTES POLLUTION, DIRECT – None
7 – CONTRIBUTES POLLUTION, INDIRECT – # 4, 6, 15, 20, 21, 32, 34
2 – CP (Kitchen or Laundry Wastes), DIRECT – # 28, 38
6 – CP (Kitchen or Laundry Wastes), INDIRECT – # 14, 25, 26, 31, 43, 47
1 – NO FACILITIES, DIRECT – # 42
3 – NO FACILITIES, INDIRECT – # 10, 16, 22
19 – B.2 TOTAL

3. POTENTIAL POLLUTION – Periodic surveillance of these properties will be maintained to determine any status change.

0 – POTENTIAL Pollution – None

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

1 – DIRECT – # 19
4 – INDIRECT – # 8, 12, 17, 18
5 – C.1. TOTAL

2. SOLID WASTE DUMPSITES

0 – DIRECT – None
3 – INDIRECT – # 11, 12, 30
3 – C.2. TOTAL

SECTION D: BOATING ACTIVITY

5 – MARINAS – #13, 18, 29, 41, 42
8 – OTHER PLACES WHERE BOATS ARE MOORED – # 5, 7, 17, 19, 23, 24, 37, 44
3 – UNDER SURVEILLANCE – # 2, 3, 45
16 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

2 – DIRECT – # 36, 39
7 – INDIRECT – # 1, 9, 27, 33, 35, 40, 46
9 – E. TOTAL

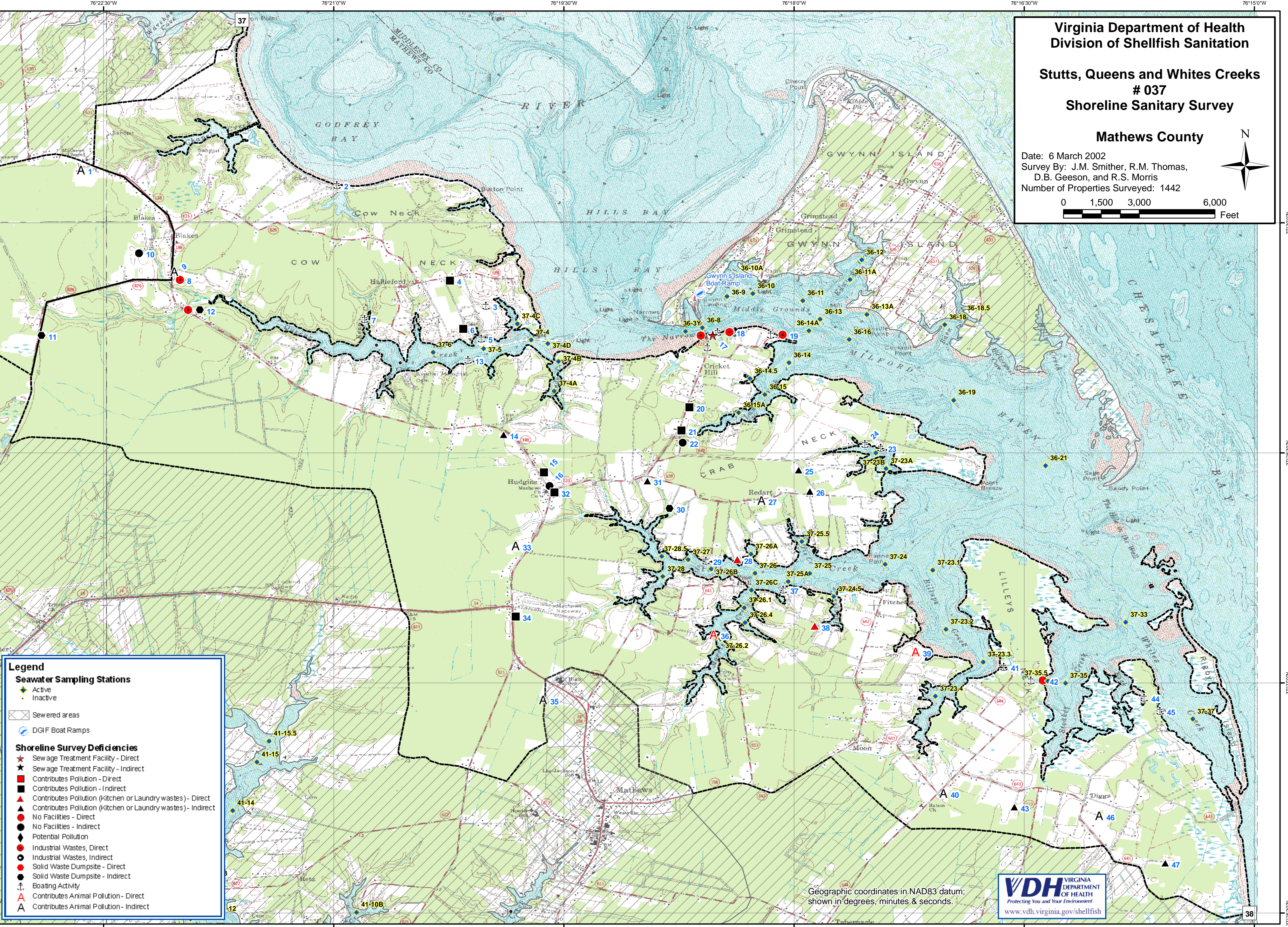
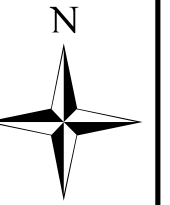
Virginia Department of Health
Division of Shellfish Sanitation

Stutts, Queens and Whites Creeks
037
Shoreline Sanitary Survey

Mathews County

Date: 6 March 2002
Survey By: J.M. Smither, R.M. Thomas,
D.B. Geeson, and R.S. Morris
Number of Properties Surveyed: 1442

0 1,500 3,000 6,000
Feet



Legend

Seawater Sampling Stations

- Active (blue dot)
- Inactive (yellow dot)

Shoreline Survey Deficiencies

- Sewage Treatment Facility - Direct (red star)
- Sewage Treatment Facility - Indirect (black star)
- Contributes Pollution - Direct (red square)
- Contributes Pollution - Indirect (black square)
- Contributes Pollution (Kitchen or Laundry wastes) - Direct (red triangle)
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect (black triangle)
- No Facilities - Direct (red circle)
- No Facilities - Indirect (black circle)
- Potential Pollution (black diamond)
- Industrial Wastes, Direct (red circle with dot)
- Industrial Wastes, Indirect (black circle with dot)
- Solid Waste Dumpsite - Direct (red circle with cross)
- Solid Waste Dumpsite - Indirect (black circle with cross)
- Boating Activity (anchor symbol)
- Contributes Animal Pollution - Direct (red 'A')
- Contributes Animal Pollution - Indirect (black 'A')

Geographic coordinates in NAD83 datum;
shown in degrees, minutes & seconds.

